QMS® 2060 Print System Getting Started

1800447-001B

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1

Introduction

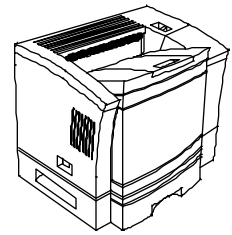
In This Chapter . . .

- “About the Printer” on page 1-2
- “About the Documentation” on page 1-3
- “What's Next?” on page 1-11

About the Printer

The **QMS 2060 Print System** is a powerful, but easy-to-use 20-page-per-minute monochrome laser printer offering

- The next-generation Crown operating system
- High-performance processing
- Innovative network features
- Flexible emulations support
- Toner conservation and energy efficiency
- An assortment of printer fonts



Printer Configurations

The printer comes in four configurations: BX, GX, FX, and EX.

QMS 2060 BX Print System	QMS 2060 GX Print System
■ 16 MB RAM	■ 32 MB RAM
■ 600x600 dpi resolution on all supported media sizes up to 13x19*	■ 600x600 dpi resolution on all supported media sizes up to 13x19*
■ Letter/A4 cassette	■ Universal cassette
■ 650-sheet paper-feed capacity	■ 400-sheet paper-feed capacity
QMS 2060 FX Print System	**QMS 2060 EX Print System**
■ 48 MB RAM	■ 48 MB RAM
■ 1200x1200 dpi resolution on all supported media sizes up to 13x19*	■ 1200x1200 dpi resolution on all supported media sizes up to 13x19*
■ Universal cassette	■ Universal cassette
■ 400 sheet paper-feed capacity	■ 400-sheet paper-feed capacity
	■ Internal hard disk

* Printing at higher resolutions and/or on larger media sizes requires additional RAM. Printing at 1200x1200 dpi also requires an optional Multi-Res daughterboard.

» **Note:** *Two other configurations are also available: the QMS 2060 IS Print System (for additional information, see the QMS ImageServer documentation) and the QMS 2060 WX Print System (for complete information, see the QMS 2060 WX Print System documentation).*

About the Documentation

The documentation provides a window into the many capabilities of your printer. The more familiar you are with the documentation, the easier it'll be for you to achieve the results you want from your printer. This section gives you an idea of how we've organized information and which documents you'll probably refer to the most.

Standard Product Documentation

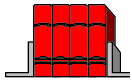
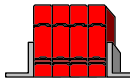
	QMS 2060 Print System Getting Started	You're looking at this document right now. "About This Manual," later in this chapter, tells you what's covered in this manual. **»Note:** *This manual is also on the 2060 CD-ROM in Adobe Acrobat format.*
 2060 Documentation CD-ROM	***QMS 2060 Print System Operation*** (Adobe Acrobat PDF format)	This manual guides you through the day-to-day operation of your printer. It includes information on printing files; adding print media; selecting input and output bins; duplexing; collating; replacing print media and toner; handling, cleaning, and maintaining your printer; improving print quality; and troubleshooting printer problems.

 2060 Documentation CD-ROM	***QMS 2060 Print System Options*** (Adobe Acrobat PDF format)	Refer to this manual for information on installing QMS printer options. It describes how to install and use the duplexer, optional emulations, security key, memory upgrades, optional fonts, 1200x1200 dpi Multi-Res daughter-board, optional interfaces, CrownCopy, hard disks, ImageServer II, BuzzBox Lite, QFORM, and system software updates.
 2060 Documentation CD-ROM	***QMS 2060 Print System Reference*** (Adobe Acrobat PDF format)	Refer to this manual when you need to change your printer's configuration. This manual also provides information on typefaces and fonts, job accounting, job recovery, printer memory, printer options, and other advanced printer features. The system administrator should get the most use from this manual.
 Software Utilities CD-ROM	***QMS Crown Remote Console User's Guide*** (Adobe Acrobat PDF format)	This manual describes how to use the Remote Console software to access printer information and change printer configuration settings from anywhere on the network.
 Software Utilities CD-ROM	***QMS Crown Network Notes*** (PostScript format)	Refer to this document for network tips. It discusses 3Com 3+Open, Banyan VINES, LAN Manager-based LANs, Novell NetWare, TCP/IP, UNIX, DECnet, and VMS. In most cases, only advanced network users and system administrators need this information. » **Note:** *This manual is provided on CD-ROM in encapsulated PostScript (EPS) form on the QMS Software Utilities CD-ROM. Refer to the README file for information on printing a hard copy of the manual.*

 Software Utilities CD-ROM	***QMS CrownNet Setup Guide*** (Adobe Acrobat PDF format)	Refer to this manual for complete setup information on the QMS CrownNet Ethernet and Token-Ring interfaces.
 Software Utilities CD-ROM	***QMS CrownNet System Administrator's Guide*** (Adobe Acrobat PDF format)	Refer to this manual when configuring the printer's Ethernet (CrownNet) interface and when using the CrownAdmin 3 software.
 Software Utilities CD-ROM	***QMS Crown Document Option Commands*** (Adobe Acrobat PDF format)	Document Option Commands (DOCs) are software codes you insert in documents to enable printer features that cannot be accessed by your application or page description language. This manual lists and explains all of the commands. The DOCs supported by your printer are listed in appendix D, "Document Option Commands," of the *Reference* manual. In most cases only advanced users or system administrators need this information.

Related Documentation

Several other documents are also helpful when using your printer:

 **PostScript Reference Manuals**	Other manuals that contain PostScript information are the *PostScript Language Reference Manual* (Adobe Systems, Inc., Reading, MA: Addison-Wesley, 1990 ISBN-0201-18127-4), and other PostScript Language Reference Manual supplements.
 **Other Reference Sources**	Don't forget that your application documentation, your host operating system documentation, and your network documentation all contain useful printing information. Further information on QMS printers is available through the QMS Bulletin Board, Internet, and Q-FAX. See appendix A, "QMS Customer Support," for details.

Manuals on the CD-ROMs

The manuals included on the *QMS 2060 Print System Documentation* and *QMS Software Utilities* CD-ROMs are in Adobe Acrobat PDF format. We've also provided the Acrobat Reader and QuickTime programs on both CD-ROMs. The CD-ROM insert provides instructions on installing them.

About Adobe Acrobat Reader

Adobe Acrobat PDF-formatted manuals give you more flexibility and convenience than do hardcopy manuals when you have to access information. Here are some of the advantages PDF-formatted manuals provide:

- You can store the PDF manuals in a central location for access by anyone on the network.

- You can view and print the manuals on Windows, Macintosh, and UNIX platforms.
- You can view the manuals on web browsers using the Acrobat plug-in.
- You can view the manuals on-screen in different formats (side-by-side or two-up, one page at a time, scrolling two-up, article flow, and zooming capability up to 800%).
- You can conduct full-text searches through all of the manuals.
- You can print only the manual pages that you need.
- The PDF-formatted manuals have been enhanced for on-screen viewing and navigation. Throughout each manual are numerous hotlinks to cross-reference points. The table of contents and the index are fully hotlinked to their respective page references, and all World Wide Web addresses are linked to their respective home pages.

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Using Adobe Acrobat Reader

When you use Acrobat to view your manuals, keep the following tips in mind for using some of the navigation features built into Acrobat and your manuals.

- You may view the document in three different styles: page only, with bookmarks, or with thumbnails. Try each to see which you like best. Viewing with bookmarks will enable you to use a quick table of contents to move around the document.
- The toolbar also gives you quick access to page navigation features. For example, you may click a button to advance (>) or reverse (<) one page, go to the start (|<) or end (>|) of the document, or use the history button (<<) to go to the previous pages you viewed. There are other buttons in the toolbar to change view or magnification of the document.

- As you browse through the document the open hand tool will sometimes turn into a pointing hand. You have discovered an embedded link in the manual. You will find these links in the table of contents, index, www addresses, and cross references. Click on the link to jump to a new location.
- Use the Acrobat Reader Online Help for a more complete explanation of these features.

A Note on Media

All QMS manuals are also available in hard copy. In the US, contact QMS at 1 (800) 523-2696 for purchase information. Elsewhere, refer to appendix A, “QMS Customer Support.”

In addition, many applications, utilities, and printer drivers on the *QMS Software Utilities* CD-ROM are available on alternate media. Contact your QMS vendor for media availability and purchase information. You can also download many of these files via ftp from our World Wide Web Server at http:/www.qms.com, our ftp resource at ftp.qms.com, our Bulletin Board at (334) 633-3632, or CompuServe at go qmsprint. Refer to appendix A, “QMS Customer Support,” for sales and support locations and telephone numbers.

About This Manual

This manual contains detailed, illustrated instructions to guide you as you unpack and set up your printer and connect it to a host (such as an IBM or compatible PC or an Ethernet network). In addition, it introduces you to the printer's control panel. This manual is divided as follows:

1	**Introduction**	Presents an overview of the documentation and of the printer's features.
2	**Setting Up Your Printer**	Guides you in selecting a location for your printer and explains how to unpack and set up your printer.
3	**Connecting to a PC**	Explains how to connect the printer to an IBM PC or compatible computer using the parallel port and how to install a printer driver.
4	**Connecting to an Ethernet Network**	Explains how to connect the printer to an Ethernet network and how to do the necessary printer and network configuration.
5	**Connecting to a Macintosh**	Describes the printing software you'll need to install to print from a Macintosh.
6	**Using the Control Panel**	Introduces the parts of the printer control panel.
A	**QMS Customer Support**	Provides product sales and support telephone numbers and describes how to communicate with QMS through the QMS Bulletin Board, CompuServe, Internet, and Q-FAX.
B	**Configuration Menu**	Provides a menu chart that shows the Configuration menu.

Typographic Conventions

The following typographic conventions are used in this manual:

`Mixed-Case Courier`	Text you type, and messages and information displayed on the screen
`Mixed-Case Italic Courier`	Variable text you type; replace the italicized word(s) with information specific to your printer or computer
UPPERCASE COURIER	Information displayed in the printer message window
lowercase bold	PostScript operators and DOS commands
lowercase italic	Variable information in text
UPPERCASE	File and utility names
↵	Press the Enter key (PC) or Return key (Macintosh)
^	Press and hold down the Ctrl key (PC)

» **Note:** *Notes contain tips, extra information, or important information that deserves emphasis or reiteration.*

▲ **Caution:** *Cautions present information that you need to know to avoid equipment damage, process failure, or extreme annoyance.*

WARNING! *Warnings indicate the possibility of personal injury if a specific procedure is not performed exactly as described in the manual.*

ACHTUNG! *Bitte halten Sie sich exakt an die im Handbuch beschriebene Vorgehensweise, da sonst Verletzungsgefahr bestehen könnte.*

What's Next?

Chapter 2, "Setting Up Your Printer," explains how to find a good location for the printer, unpack the printer, install a toner cartridge, and load and install the standard paper cassette.

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2

Setting Up Your Printer

In This Chapter...

- “Finding a Good Location” on page 2-2
- “Unpacking the Printer” on page 2-6
- “Installing a Toner Cartridge” on page 2-7
- “Loading the Media Cassette” on page 2-10
- “Loading the 500-sheet Cassette” on page 2-11
- “Load the 250-sheet Cassette” on page 2-14
- “Start-up Page Contents” on page 2-19

Introduction

This chapter explains how to set up your QMS 2060 Print System for the first time.

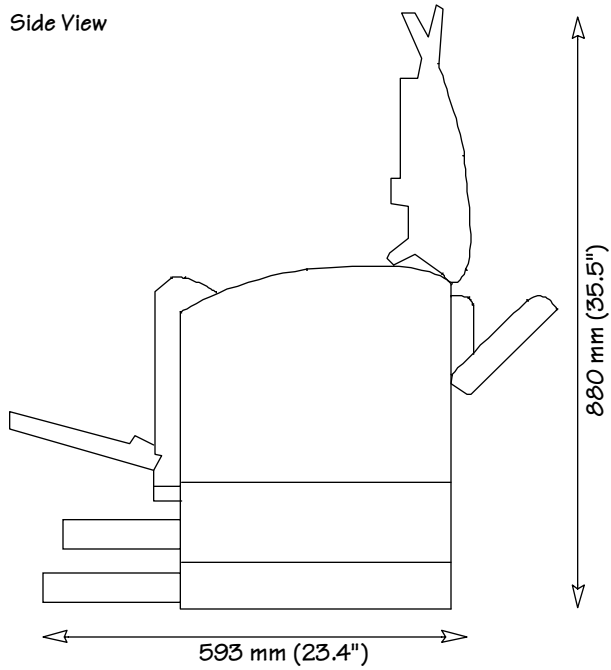
It includes information on finding a good location for the printer, unpacking and checking the shipment contents, installing a toner cartridge, loading the cassettes, turning the printer on, and printing a start-up page.

Finding a Good Location

The Printer Must Be Placed...

- Away from cooling and heating sources, extreme temperature changes, direct sunlight, excessive dust, corrosive chemicals or vapors, water pipes, refrigerators, any strong electromagnetic field (such as that created by an air conditioner), items that can easily burn (such as a curtain), and excessive vibration. Don't connect it to the same electrical outlet as noise-generating equipment.
- In an area with a temperature range of 50° - 95° F/10° - 35° C (with temperature fluctuation of ±10°) and relative humidity range of 15% - 85% (with humidity fluctuation of ± 20°).
- On a hard, level surface capable of supporting the 53 lb (24 kg) printer.
- Near your computer—6 feet (1.8 meters) or less for a parallel connection.
- Close to an easily accessible power supply.
- In a well-ventilated room.

- With enough space as shown in the following diagrams to allow adequate ventilation and easy servicing of the printer.



Clearance on all four sides

Left side = 305 mm (12")
Right side = 305 mm (12")
Front side = 914 mm (36")
Rear = 305 mm (12")

Power Requirements

Your printer requires a properly grounded AC outlet with a power range of ±10% of the rated line voltage (100/120 V or 230 V). Make sure that the capacity of the electrical outlet is at least 1.2 times that used by the printer. Noise-generating equipment should not be connected to the same electrical outlet as the printer.

The recommended frequency is 50-60 Hz for a 100/120 V system and 50-60 Hz for a 230 V system. The frequency fluctuation is ±0.3%.

Energy Star Compliance

All models of the printer are compliant with US Environmental Protection Agency (EPA) Energy Star regulations. After a specified period of inactivity, the printer changes to a low-power state (the engine remains on, but the fuser turns off). When a print job is received, the printer returns to normal power within 90 seconds.

Checking Shipment Contents

Shipment Contents

If you have this printer model...				Your shipment contains...
BX	GX	FX	EX	
✓	✓	✓	✓	QMS 2060 Print System
✓				Letter/A4 media cassette
	✓	✓	✓	Universal media cassette
✓	✓	✓	✓	Power cord
✓	✓	✓	✓	*QMS 2060 Print System Getting Started* (this manual, hard copy)
✓	✓	✓	✓	*QMS 2060 Documentation* CD-ROM — *QMS 2060 Print System Getting Started* (this manual) — *QMS 2060 Print System Operation* — *QMS 2060 Print System Reference* — *QMS 2060 Print System Options* — Adobe Acrobat Reader 3.0 software
✓	✓	✓	✓	Documentation binder and 2 binder inserts
✓	✓	✓	✓	*QMS Software Utilities* CD-ROM
✓	✓	✓	✓	Toner cartridge
✓	✓	✓	✓	Warranty and registration card

Make sure that all items are included in your shipment before setting up your printer. If any items are missing or damaged, contact your shipping company or your QMS vendor. See appendix A, “QMS Customer Support,” for product sales and support information.

» **Note:** *Interface cables aren’t included in the shipment. If you need cables, contact your QMS vendor or a local computer store. See chapters 3, 4, and 5 of this manual for information on the type cable needed.*

Media

If you need alternate media, please contact your QMS vendor for media availability and purchase information. (See appendix A, “QMS Customer Support,” for sales and support locations and telephone numbers.)

Registering the Printer

QMS is committed to developing print systems that offer you flexible, efficient solutions, so we’re interested in knowing how you plan to use your printer. You can register your printer through our World-Wide Web site, http://www.qms.com.

To register by mail, fill out and send in your warranty card. To register by telephone, in the US call QMS toll-free at (800) 637-8049. In other countries, refer to appendix A, “QMS Customer Support,” for the appropriate location and telephone number.

Unpacking the Printer

The packing materials that protect your printer during shipment—cardboard, polystyrene, tape, and shipping spacers—must be removed before you can use the printer. Use the following procedure to unpack the printer. To ensure that your printer was not damaged during shipment, follow the entire procedure, including printing the start-up page.

» **Note:** *Save the packing materials in case you ever have to move or ship the printer to a new location.*

▲ **Caution:** *Remove all packing materials before turning on the printer, or you may damage it.*

1 Lift off the box, and remove everything except the printer from the shipping carton.

2 Lift the printer out of the shipping carton.

Carrying grips are located on the bottom of the left and right sides of the printer.

WARNING! *The printer weighs about 53 lbs (24 kg). Don't lift it by yourself.*

ACHTUNG! *Der Drucker wiegt ca 24 kg; bitte versuchen Sie niemals, das Gerät alleine anzuheben oder zu tragen.*

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3 Remove the protective plastic covering, foam, and tape from the outside of the printer.

4 Remove the packing materials and tape from inside the printer and media cassette.

5 Slide the cassette into the feeder, if necessary.

6 Place the printer in the location where it is to reside.

Installing a Toner Cartridge

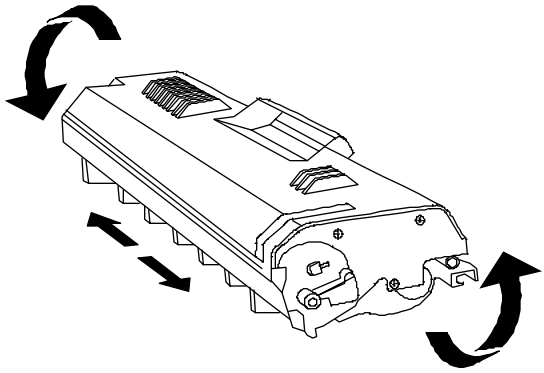
» **Note:** *The toner cartridge is sensitive to bright light. Do not remove the cartridge from its protective bag until you're ready to install it. Store the cartridge in an environment that is not subject to extreme heat or humidity, salty air, or corrosive gases, such as aerosols. Keep the toner cartridge away from your computer. The magnets in the cartridge can damage data, particularly on your floppy disks.*

1 Lift the toner cartridge out of its shipping carton, open the protective bag, and remove the cartridge.

» **Note:** *After taking the toner cartridge from its protective bag, do not open the cover or touch the OPC drum of the toner cartridge because it may deteriorate the drum and reduce print quality.*

2 Distribute the toner in the cartridge.

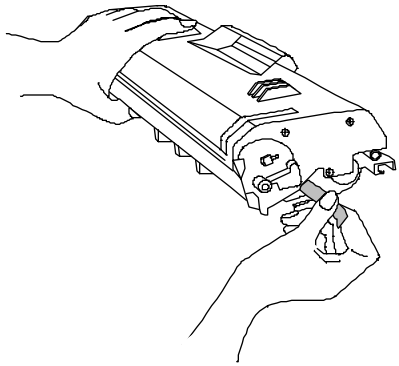
Hold the cartridge with both hands, and gently rock it from side-to-side five or six times to distribute the toner.



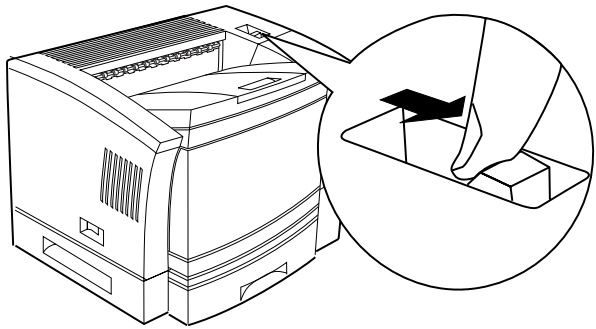
3 Remove the tape seal.

Holding the cartridge in place with your left hand, use your right hand to grasp the tab on the right side of the toner cartridge.

Grasp the clear plastic strip and pull it straight out. Discard the plastic strip.

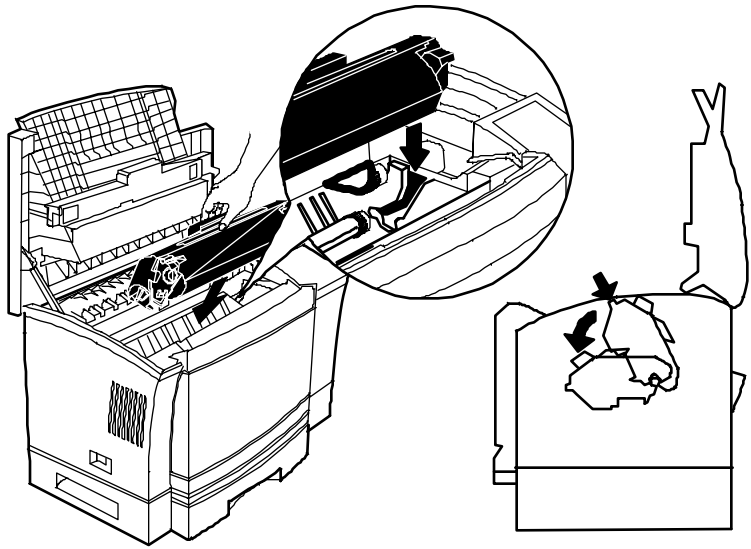


4 Press the upper unit lock release button and open the top cover.



5 Slide the toner cartridge into the printer.

Hold the grooved area on the toner cartridge with your right hand, then with the arrow on the toner cartridge facing away from you angle the cartridge down in the printer. Place the cartridge on the rails inside the upper unit of the printer, and gently slide it straight down until it's firmly seated.



6 Close the printer's top cover.

Loading the Media Cassette

The QMS 2060 Print System comes standard with either a 500-sheet cassette or a 250-sheet universal cassette, depending on the model ordered. These trays are interchangeable and therefore can be either in the upper or optional lower position. Basically, loading media in either cassette involves the following steps:

- Prepare the paper
- Load the cassette

Each of these steps is described in detail, later in this procedure. There is a section for loading a 500-sheet cassette, and one for loading a 250-sheet cassette.

Prepare the Paper

▲ **Caution:** *Ensure that the media size matches the cassette size (for example, letter/A4 media must be loaded only when the letter/A4 letter cassette is inserted or the universal cassette is set to letter/A4 size). Since the media cassette sends a media size signal to the printer controller, using a wrong size media will cause your image to be positioned incorrectly on the page or clipped.*

1 **Unwrap the paper, pull the stack out, and then with one hand at each end of the stack, lift and hold it in a curved position.**

» **Note:** *Paper is packed in reams of 500 sheets. Do not unpack the paper above the printer as this might cause particles to fall into the printer components. Note the arrows on the wrapper. They show which side of the paper should be on the top when it is loaded in the cassette.*

2 **Grip each end of the stack firmly.**

3 **Straighten the stack, and then roll the fanned sheets from side to side to get air through the sheets and prevent static buildup.**

4 **Take off the top and bottom sheets**

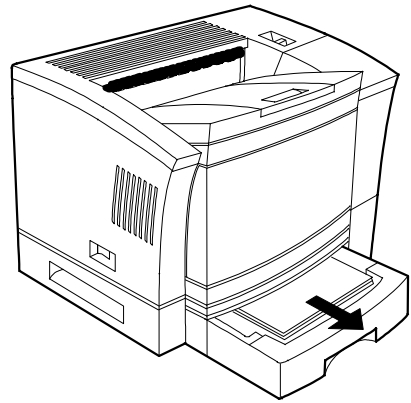
The top and bottom sheets sometimes have residual glue buildup that could cause the printer to jam.

Loading the 500-sheet Cassette

Load media in the 500-sheet cassette as follows. For 250-sheet cassette instructions, see “Load the 250-sheet Cassette” on page 2-14.

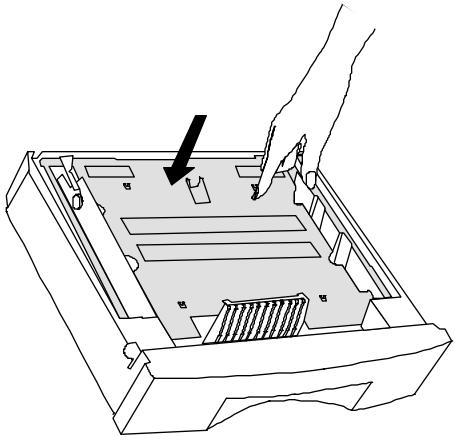
» **Note:** *Reload media cassettes only when the printer is not actively printing.*

1 Pull out and remove the cassette.



2 Position the cassette.

The cassette has a spring in the bottom that provides some resistance when print media is placed on it. Lay the cassette flat on a hard surface and, using your left hand, push down on the plate in the cassette until it locks.



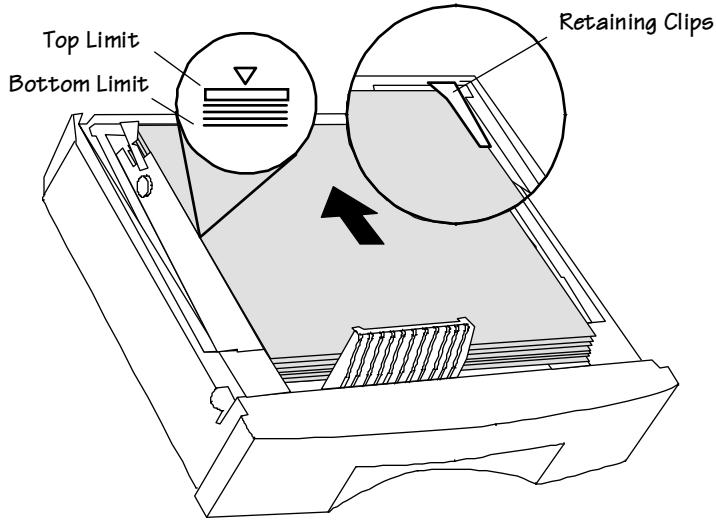
3 Load media in the 500-sheet cassette in increments so that the 500 sheets fit in the cassette and the media stack is properly leveled out.

Load the media so the front end of the stack comes against the front of the cassette in three steps as follows:

a Up to the bottom limit mark.

b Halfway to the top limit mark.

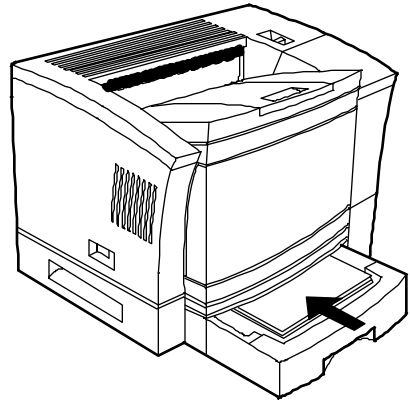
c Up to the top limit mark.



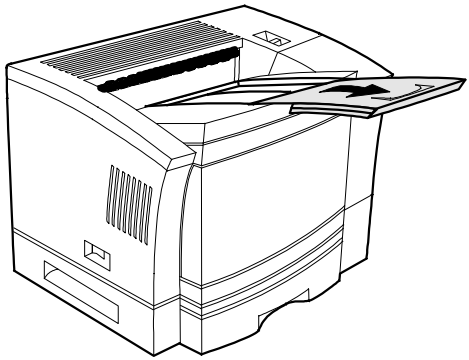
» **Note:** *See appendix B, "Technical Specifications," the "Print Media" section, for media size feed edge information.*

4 Ensure that the media stack lies flat under the retaining clip and does not exceed the top limit mark.

5 Slide the cassette back into the upper cassette feeder until it's firmly seated.



6 Adjust the media tray to fit the media size.



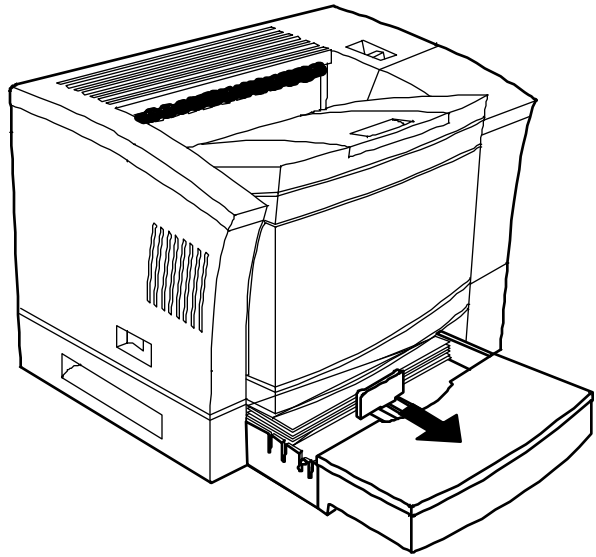
» **Note:** *When printing different-sized media, set the media tray to the largest paper size. If the media tray is set to a smaller paper size, large-size paper will curl, block the opening (when delivered to the output tray), and cause a media jam. Additionally, 13x22 and 13x26 paper sizes will curl beyond the input and output guides and therefore should be handled accordingly.*

Load the 250-sheet Cassette

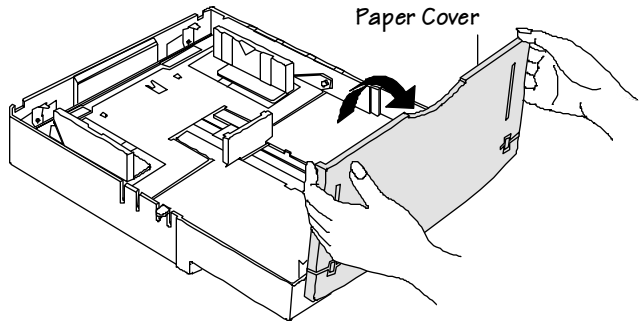
Load media in the 250-sheet universal cassette as follows. For 500-sheet cassette instructions, see “Loading the 500-sheet Cassette” on page 2-11.

» **Note:** *Reload media cassettes only when the printer is not actively printing.*

1 Pull out and remove the cassette.

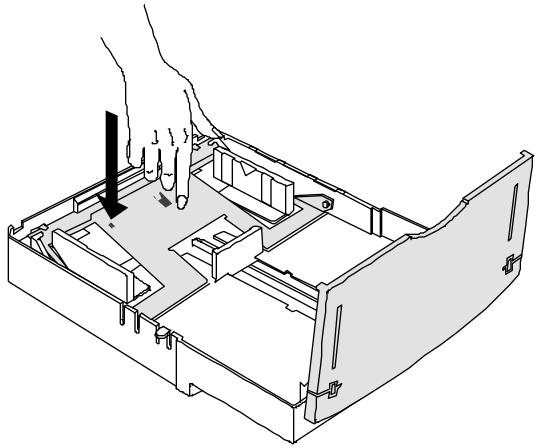


2 Open the paper cover.

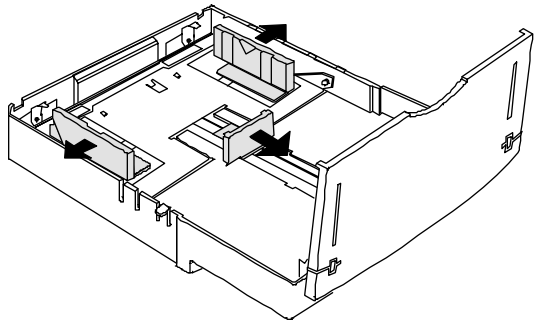


3 Position the cassette.

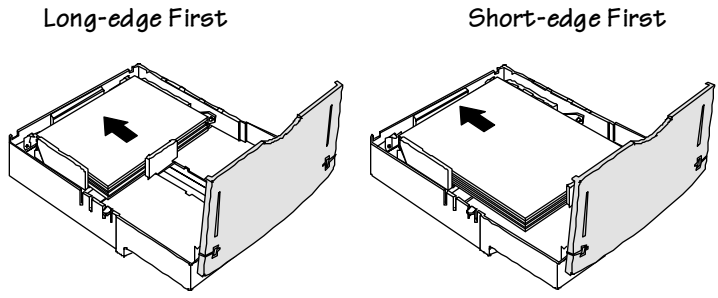
The cassette has a spring in the bottom that provides some resistance when print media is placed on it. Lay the cassette flat on a hard surface and, using your left hand, push down on the plate in the cassette until it locks.



4 Adjust the paper guides to fit the paper size.

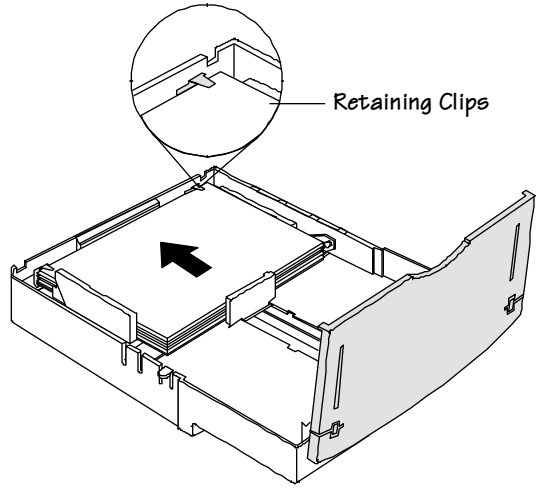


5 Load media face-up in the universal cassette.



» **Note:** *See appendix B, "Technical Specifications," the "Print Media" section, for media size feed edge information.*

6 Ensure that the media stack lies flat, does not exceed the top limit mark, and is positioned under the retaining clips.

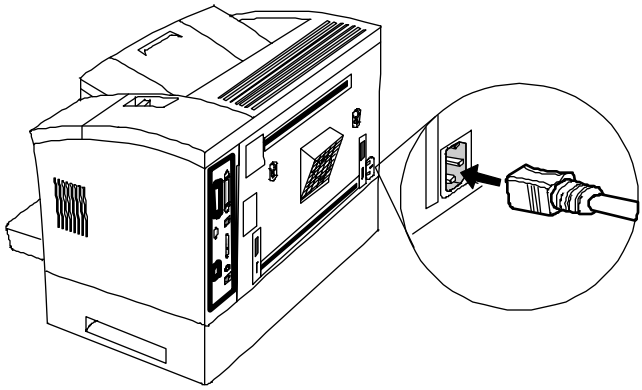


7 Slide the cassette back into the printer until it's firmly seated.

Printing a Start-up Page

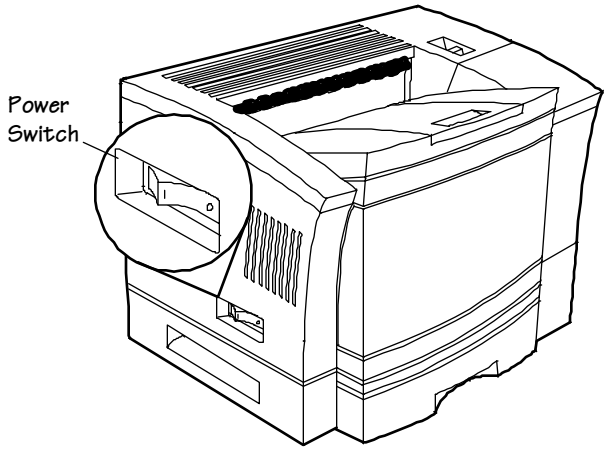
▲ **Caution***: Make sure that the printer power switch is turned off (the O is pressed down).*

1 Plug the power cord into the connector on the rear of the printer.



2 Plug the opposite end of the power cord in a grounded AC outlet.

3 Turn on the printer (press down the | side of the power switch).



After a brief warm-up (less than 2 minutes) the printer produces a start-up page.

4 If the start-up page prints and the quality is good, go on to the next section, "Installing Options." If the start-up page doesn't print or the quality isn't good, refer to chapter 6, "Troubleshooting," in the *QMS 2060 Print System Operation* manual.

Start-up Page Contents

When you turn on the printer, a start-up page prints. This page gives you an overview of your QMS 2060 Print System. The following information prints on the start-up page:

- Printer product name, firmware level number, software version, revision, and release numbers.
- Cumulative page count for all page sizes, separate 11 x 17"/A3 page count, amount of resident RAM (in megabytes), number of PostScript typefaces in ROM, default resolutions, and disk online notification (if one or more is installed).

- CrownCopy logo, if CrownCopy is installed.
- ImageServer logo, if ImageServer is installed.
- Type of paper in each input bin.
- All installed printer options.
- All standard and optional interfaces

» **Note:** *When a font SIMM is installed, the following appears in the Options section of the start-up page even though you have only one installed:*

```
%cartridge1%

%cartridge%
```

Remember that the serial interface is an option which must be purchased through your QMS vendor. See appendix A, “QMS Customer Support,” for a list of locations and telephone numbers.

Installing Options

If you purchased any printer options, such as extra memory (SIMMs), emulations, a network interface card, or an internal hard disk, then install them now. If installation instructions are included with the option, follow them. If not, installation instructions are included in the *Options* guide.

» **Note:** *Remember to turn off the printer before you install an option.*

What’s Next?

Now that you’ve set up your printer, go to chapter 3, “Connecting to a PC,” chapter 4, “Connecting to an Ethernet Network,” or chapter 5, “Connecting to a Macintosh.”

❖

3

Connecting to a PC

In This Chapter . . .

- “Making a Parallel Connection” on page 3-3
- “PC Printing Software” on page 3-5
- “Printing from the PC” on page 3-15

Introduction

This chapter describes how to connect your printer to a PC and how to install a printer driver.

Overview

1 **Turn off both the printer and the PC.**

2 **If you will be printing via the serial port, install an optional serial interface. See chapter 3, "Interfaces and Daughterboards," in the *Options* manual for instructions.**

3 **Connect the printer to the PC.**

- If you're connecting to a PC through a parallel interface, refer to "Making a Parallel Connection" on page 3-3.
- If you're connecting to a PC through an optional serial interface, refer to chapter 3, "Interfaces and Daughterboards," in the *Options* manual for installation and connection instructions.
- If you're connecting to a PC through an Ethernet network, refer to chapter 4, "Connecting to an Ethernet Network," of this manual.

» **Note:** *If the printer is more than 6.5 feet (2 meters) from the PC, we recommend using a serial connection for better communication.*

4 **Turn on both the printer and the PC.**

5 **Install a printer driver.**

See "PC Printing Software" on page 3-5.

6 **Now you're ready to print.**

Making a Parallel Connection

What You Need for a Parallel Interface

Interface cables are not included with your printer. If you're replacing a printer, you may already have the necessary cables. If not, you'll need to purchase the cables from your QMS vendor or a local computer store.

To connect your printer to a single PC, you need a parallel cable with a 36-pin male and a 25-pin male connector.

How to Choose a Parallel Cable

Your printer supports both Centronics parallel, and IEEE 1284 bidirectional parallel communication. The type of parallel cable you use depends on the type of parallel communication your computer supports (check your computer user's guide if you're unsure).

- If your computer supports IEEE 1284 bidirectional parallel communication, you need an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). This cable must be 6.5 feet/2 meters or less in length.
- If your computer supports only Centronics parallel unidirectional communication, you may use either a Centronics parallel cable (unmarked on cable) or an IEEE 1284 bidirectional parallel cable (IEEE 1284 is indicated on the cable). However, QMS recommends an IEEE 1284 cable. The IEEE 1284 cable must be 6.5 feet/2 meters or less in length while the Centronics cable may be longer.

Making the Connection

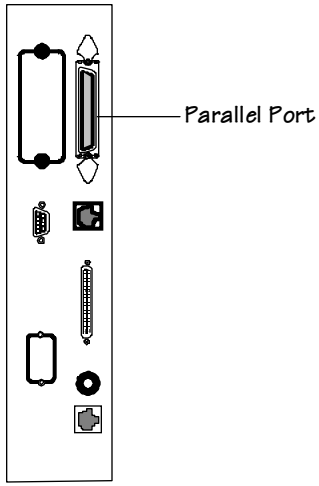
1 Turn off both the printer and the PC.

2 Connect the PC and the printer using a parallel cable.

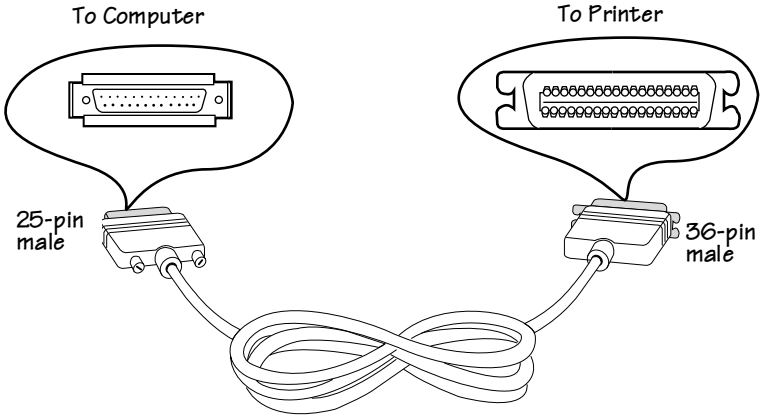
a Connect the 25-pin end of the cable to the PC's parallel port.

b Tighten the screws.

c Attach the 36-pin end of the cable to the printer's parallel port (it's labeled "PARALLEL").



d Close the clips.



3 Turn on both the printer and the PC.

A start-up page should print. If it doesn't, see the "Printer Problem Checklist" in chapter 6, "Troubleshooting," of the *Operation* guide.

4 **Test communication between the printer and the PC.**

You can do this by sending a file from one of your applications, or you can see “Testing Communication” in chapter 6, “Trouble-shooting,” of the *Operation* guide.

Making a Serial Connection

Refer to chapter 3, “Interfaces and Daughterboards,” in the *Options* manual for details on making a serial connection.

PC Printing Software

If you're replacing a PostScript printer, you can probably start printing now with the printing software already in place. Refer to your application documentation for instructions on sending documents to the printer.

However, if you want to be able to use all your printer's special features (like collation, 600x600 dpi and 1200x1200 dpi printing), **or** if you've never printed to a PostScript printer before, we recommend you take a few minutes to make sure you have the following printing software installed:

- A PostScript Level 2 printer driver
- Printer description files (if you use QuarkXPress 3.3, PageMaker, or Photoshop)

Installing a PostScript Printer Driver

Windows Applications

If you're using Windows, we recommend that you install one of the QMS-developed Level 2 Windows drivers on the *QMS Software Utilities* CD-ROM we shipped with your printer. Drivers are available for

- Windows 3.1
- Windows for Workgroups 3.11
- Windows 95
- Windows NT 3.51
- Windows NT 4.0

Refer to the README file on the CD-ROM for information on the directory location of each driver. Then refer to the README file in that directory for installation information.

Non-Windows Applications

If you're using a non-Windows application, read the printing section of the application documentation for information on choosing a PostScript driver. If the application does not provide a PostScript driver, contact the application manufacturer to see if one has become available since you bought the program. Also, PostScript drivers for some applications are available through the QMS bulletin board, the Internet, and CompuServe; see appendix A, “QMS Customer Support,” for information.

Also, check to see if application notes (tips for printing from specific applications) are available for your application from Q-FAX, the QMS bulletin board, the Internet, or CompuServe. Appendix A, “QMS Customer Support,” explains how to use these QMS information services.

Installing a QMS Level 2 Windows Driver

Windows 3.1, Windows for Workgroups 3.11, Windows 95, Windows NT 3.51

Minimum System Requirements

- An IBM or compatible computer with 386 or higher processor
- A hard disk with at least 1 MB of free space
- At least 8 MB of RAM
- MS-DOS 5.0 or higher
- Windows 3.1, Windows for Workgroups 3.11, Windows 95, or Windows NT 3.51

Installation

» **Note:** *If a printer using a Microsoft PostScript printer driver (instead of a QMS Level 2 printer driver) is already installed, the installation program will not overwrite the printer entry if it has the same printer name. Either remove or rename the existing printer entry before installing a new printer entry.*

1 **With your computer on and Windows running, insert either the *QMS Software Utilities* CD-ROM or a disk with the printer driver on it in the appropriate drive on your computer.**

2 **Open Explorer (Windows 95) or File Manager.**

» **Note:** *Running the installation program outside of windows will automatically start Windows and run the program.*

3 **Change to the appropriate directory, and then double-click SETUP.EXE to open the installation program.**

- **CD-ROM**—Change to the PC\WINDOWS\DRIVERS\PSLVL2 directory.
- **3.5" Disk**—Change to the 3.5" disk directory (usually drive A).

4 Follow the instructions on the screen.

▲ **Caution:** *Windows limits the number of installed printers to 16.*

If you use (or plan to use) Microsoft Word 7.0, do not use the characters " on " (the word "on" with a space before and after it) when prompted to name the printer. Word will not display the printer properties of any printer with these characters in its name.

5 When the "Setup is complete" message box displays, choose Yes.

The installation program copies the driver-related files into the \WINDOWS\SYSTEM directory and updates the Registry (Windows 95) or WIN.INI file accordingly. Consequently, the specified printers do not need to be installed using Start>Settings>Printer (Windows 95) or Control Panel.

The program also copies PPD and PDF files into separate subdirectories under the specified installation directory. (See your printer documentation for more information on using these files.) You may delete these files if you don't use applications that require them.

6 Now you can set printer options from your application by choosing Print Setup from the application's File menu and then choosing the Options button. Choose the Help button in any of the driver dialog boxes for information on driver options.

» **Note:** *The QMS Level 2 Windows driver has the Compress Output setting enabled by default. This feature decreases the time the file stays out on the network because the data is compressed at the host, transferred to the printer, and then decompressed. However, for users who are not on a network, this feature slows printing via the parallel port. To disable this feature, select the Output tab, choose Options, and click Compress Output.*

For more notes, see the readme file that comes with the printer driver.

Windows NT 4.0

Minimum System Requirements

- An IBM or compatible PC with 386 or higher processor
- A hard disk with at least 128 MB of free space
- At least 16 MB of RAM (32 MB recommended)
- Windows NT 4.0

Installation

» **Note:** *If you want to be able to print to a QMS CrownNet port, the QMS CrownNet Print Utility for Windows must be installed on your Windows NT workstation or server, and a port must be created before continuing with this installation procedure. See the PRTMONNT.PDF file (Adobe Acrobat format) in the \PLATFORM\WIN_NT\MONITOR directory of the QMS Software Utilities CD-ROM for details on installing and setting up this utility. In addition, if a WIndows NT 4.0 or a QMS Level 2 Windows NT 4.0 printer driver has been previously installed, you must use the reinstallation procedure on page 3-12.*

1. **With Windows NT 4.0 running, insert the Q*MS Software Utilities* CD-ROM disk in the CD-ROM drive on your workstation.**
2. **In the Windows NT Start menu choose Settings.**
3. **In the Settings menu choose Printers.**
4. **Choose Add Printer.**
5. **Choose Next.**
6. **When prompted, choose the appropriate radio button to identify how the printer is attached to your workstation (Local Printer or Network Printer), and then choose Next.**
7. **When prompted to select a port to use with the printer, select the appropriate port, and then choose Next.**
8. **When prompted to select a manufacturer and model of printer, choose Have Disk.**
9. **In the Install from Disk dialog box, choose Browse.**

10 **Change to the *y*/PLATFORM/WIN_NT/DRIVER/4X/*type* directory, where *y* is the workstation's CD-ROM drive, and the *type* is the type of processor on your workstation.**

OEMSETUP.INF displays in the File Name list.

11 **Choose OK.**

A list if QMS printers displays.

12 **Select QMS 2060, and choose Next.**

13 **When prompted, choose Replace Existing Driver, and then choose Next.**

14 **When prompted for a printer name, either accept the displayed name or type a new one, and then choose Next.**

15 **When prompted for sharing information, choose either Shared (and type a Share name) or Not Shared, and choose Next.**

16 **When prompted, select the operating systems of ALL computers that will be printing to the printer, and then choose Next.**

17 **When asked if you'd like to print a test page, choose either Yes or No, and then choose Finish.**

Reinstallation

» **Note:** *If a Microsoft Windows NT 4.0 or a QMS Level 2 Windows NT 4.0 printer driver has been previously installed, you must use the following procedure to delete the files before installing a new printer driver.*

1 **Open Windows NT Explorer (from the Start>Programs menu choose Windows NT Explorer).**

2 **Delete the printer(s) you want to replace or upgrade.**

3 **Install the new printers using the installation procedure on page 3-10.**

4 **Reboot your workstation.**

Notes on Installing Printer Description Files

The QMS Level 2 Windows Driver install program SETUP.EXE copies PPD and PDF files into separate subdirectories under the specified installation directory. See the QMS Level 2 Windows Driver for more detailed driver information. Online help is provided via the QMS Level 2 Windows driver. You may delete the PPD and/or PDF files if you don't use applications that require them.

Applications may require special files, drivers, and/or configurations to produce correct output on your QMS 2060 Print System. Check your application's documentation to determine if you need to use one or more of these files.

Adobe Illustrator 5.5

For best output quality and accurate screening, install the QMS-developed Windows driver as described in "Installing a QMS Level 2 Windows Driver" on page 3-7. Then do the following to change the default resolution:

1 **In Adobe Illustrator, enable 600 dpi by choosing Document Setup from the File menu.**

» **Note:** *Adobe Illustrator 5.5 has a default setting of 300 dpi.*

2 **Click on Use Printer's Default Screens to enable it.**

3 **Go to Output Resolution and enter the resolution (600 dpi or 1200 dpi, if it is in installed).**

Adobe Photoshop

For best output quality and accurate screening, install the QMS-developed Windows driver as described in "Installing a QMS Level 2 Windows Driver" on page 3-7. Then do the following:

1 **From Page Setup dialog box of the Photoshop application, select Screens.**

2 **Then click the Use Printer's Default Screen box to enable it.**

Aldus PageMaker 5.x/Adobe PageMaker 6.x

Follow this procedure to install the WPD.

We recommend that you install a Windows Printer Description (WPD) file instead of the QMS Level 2 Windows driver with PageMaker 5.0, because PageMaker requires a Microsoft 3.56 or higher Windows driver.

» **Note:** *Keep in mind that many of the QMS Level 2 Windows driver features are not available from within PageMaker using the Microsoft Windows Driver.*

1. **In the Windows Main group, double-click the Control Panel icon.**
2. **Double-click the Printers icon.**

   The Printers dialog box displays the list of installed printers. If no printer is installed, the install button and the list of available Windows 95 printers displays. If no printer is installed, skip to step 4; otherwise continue at step 3.
3. **Click the Add button to install a new printer.**
4. **In the List of Printers dialog box, select Install Unlisted or Updated Printer.**
5. **Click the Install button and the Install Driver window displays.**
6. **Insert the *QMS Software Utilities* CD-ROM.**

» **Note:** *At times updated printer drivers are shipped on 3.5" disk rather than on CD-ROM. If your shipment includes printer drivers on a 3.5" disk, use the disk instead of the CD-ROM.*

7. **Type `x:\wpds\qms\win31`↵ (where *x* is the drive in which you inserted the CD-ROM or disk), or use Browse to select the path, and then choose OK.**

   The list of available QMS printers displays.

8 Select the QMS 2060 printer, then choose OK.

If Windows does not ask for an updated driver, the QMS 2060 printer appears in the list of installed printers.

If Windows asks for an updated driver, place PageMaker disk #6 in the disk drive, then type the letter of that drive.

9 Choose OK.

The name of the printer appears in the list of installed printers.

PPD files are also to be used with PageMaker 5.0. They were copied into the PPD subdirectory of the QMS Level 2 Windows driver directory during the installation process. They should be stored in the \ALDUS\USENGLISH\PPD4 directory. This directory is typically found in the \WINDOWS directory, but PageMaker allows you to install it anywhere on your system.

If you're not sure where the \ALDUS directory is, open Windows Explorer, and search (the File menu) for "aldus" starting from the C:\ directory. Make sure you select "Search All Subdirectories."

Aldus Persuasion 2.1

This application won't print EPS (Encapsulated PostScript) images if the PostScript driver isn't PSCRIPT.DRV.

CorelDRAW 4.0

This application provides a feature to control whether a PostScript driver is actually treated as a PostScript driver or not. In the COREL-PRN.INI file under the [PSDRIVERS] section, specify which driver by either of the following statements:

```
QMSPS=1↵ (PostScript driver)
QMSPS=0↵ (Non-PostScript driver)
```

Other versions of CorelDRAW may also require special setup. Check your CorelDRAW documentation for more information.

Microsoft Excel

If your using this application with color cell backgrounds in a sparse dot pattern, the background may not always print in all resolutions and/or orientations. Interference between the bit pattern and the PostScript halftoning for color causes this inconsistency. Change the resolution to one that does work for the background and use a darker shade of gray for the pattern color, or enable the All Colors to Black option from within the Excel Images dialog box.

Other Applications

The scaling factor set in the driver is independent of any scaling factor set in an application. While the application's scaling factor is likely to affect the size and placement of image elements, the driver scaling factor simply scales the resulting image from the center of the page.

QuarkXPress

Follow this procedure to install the PDF/PPD. See your QuarkXPress documentation for detailed information on installing PDFs and PPDs.

» **Note:** *All PDF's are copied into a PDF subdirectory during the QMS Level 2 Windows Driver installation process.*

1. **After you install the QMS driver for Windows, close the QuarkXPress application on your PC.**
2. **Copy the QuarkXPress PDF or PPD from its installation directory to the QuarkXPress directory on your PC.**
3. **Restart QuarkXPress.**
4. **Check the Page Setup menu to verify that your printer is in the list of available printers.**

Printing from the PC

You're now ready to print from your PC. From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, “Print Media,” in the *Reference* guide.

If You Have Trouble

If you have trouble connecting and configuring your PC interface, refer to the “Output Problems” section of chapter 6 of the *Operation* guide for troubleshooting tips.

What's Next?

Now that you've connected your printer to a PC, continue with chapter 6, “Control Panel,” to learn about the printer's control panel keys, indicators, and message window.

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4

Connecting to an Ethernet Network

In This Chapter . . .

- “Introduction” on page 4-2
- “Connect to the Network” on page 4-3
- “Install the CrownNet Software” on page 4-3
- “Configure the Interface” on page 4-4
- “Configure the Network” on page 4-11
- “Install the QMS CrownNet Print Utility or the QMS Network Print Monitor” on page 4-12
- “Where To Go From Here” on page 4-12
- “If You Have Trouble” on page 4-13
- “What's Next?” on page 4-13

Introduction

The QMS CrownNet Ethernet interface is a combination of hardware and host software that allows your printer to be connected to an Ethernet network that supports the following:

Operating System	Protocol
AppleTalk	EtherTalk
LAN Manager/LAN Server	NetBIOS/NetBEUI
NetWare	IPX/SPX/TCP/IP
UNIX	TCP/IP
Windows 3.1/Windows 95/Windows NT	TCP/IP/NetBIOS/NetBEUI

The instructions given in this chapter are the minimum steps needed to get your printer up and printing. For complete installation information refer to the *QMS CrownNet Setup Guide*. For information on configuring the CrownNet interface and using the CrownNet software (CrownAdmin, CrownAdmin 3, CrownNet Manager, the Print Monitor, and Crown View), refer to the *QMS CrownNet System Administrator's Guide*. These manuals are found on the *Software Utilities* CD-ROM.

Overview

1. **Connect the printer to the network.**
2. **Install the CrownNet software.**
3. **Configure the CrownNet interface.**
4. **Configure the network.**
5. **Configure the user workstations.**

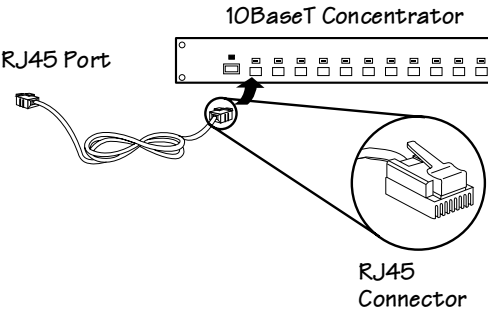
Connect to the Network

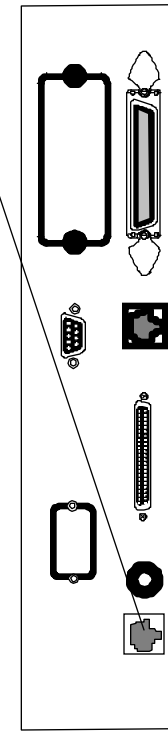
The printer provides a twisted-pair (10BaseT) Ethernet interface. Twisted-pair Ethernet connections use RJ45 connectors.

1 **Turn off the printer, and unplug the power cord.**

2 **Connect one end of the twisted-pair Ethernet cable to the printer's Ethernet port.**

3 **Connect the other end of the cable to the 10BaseT concentrator.**





4 **Plug in the printer, and turn it on.**

Install the CrownNet Software

Crownnet software, while not required, will make the installation process easier. it can also be used to facilitate management of the QMS Print System after installation.

For complete instructions, refer to the *QMS CrownNet Setup Guide* on the *QMS Software Utilities CD-ROM.*

Configure the Interface

This section briefly describes the configuration procedure for the CrownNet Ethernet printer interface. For a complete discussion of all of the configuration options available through the Administration/Communications/Network2/CrownNet menu, see chapter 2, “Interface Configuration,” of the *QMS CrownNet System Administrator’s Guide*.

You can make these configuration changes through any of the following means:

- **Printer control panel**—For information on using the printer control panel to change configuration menu settings, refer to chapter 4, “Printer Configuration,” of the *Reference* manual.
- **CrownAdmin (for DOS and Macintosh), CrownAdmin 3 (for OS/2, AIX, HP-UX, Solaris/SunOS, and Windows/Windows NT/Windows for Workgroups), or CrownNet Manager (for OS/2)**—For more information on using this software, refer to the appropriate chapter in the *QMS CrownNet System Administrator’s Guide* or to the software’s on-line help.
- **Remote Console**—For information on accessing Remote Console, refer to the appropriate chapter in the *QMS CrownNet System Administrator’s Guide*. For information on using Remote Console, refer to the *QMS Crown Remote Console User’s Guide*.

EtherTalk Interface Configuration

1 **If your network has more than one zone, use the Administration/Communications/Network2/CrownNet/EtherTalk/Zone Name/Zone Part 1 and Zone Part 2 menus to enter the name of the zone to which the printer is attached.**

» **Note:** *The two Zone Part x menus allow you to identify 1 zone with a name up to 32 characters long. (Up to 16 characters can be entered in each of the two menus). You cannot use these two menus to identify two zones. Trailing spaces are not considered part of the zone name. All standard printable ASCII characters are valid except the @ and ' symbols. The names are case sensitive.*

2 You're now ready to print.

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

OS/2 LAN Manager/LAN Server and Microsoft Windows Network Interface Configuration

1 One unique printer name is broadcast to the network. Use the Administration/Communications/Network2/CrownNet/ LAN Manager/Printer Name menu to enter the name of the printer.

» **Note:** *The name can be up to 16 characters long. Spaces and lowercase characters are not allowed. Underscore characters (_) are allowed to simulate multiword names (for example, PRODUCT_MKTG).*

2 You're now ready to print.

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

NetWare Interface Configuration (Netware 3.x)

Unless you want to use the default settings, use the following procedure to name the file and print servers. These names must be unique.

» **Note:** *In CrownAdmin, the printer shows up as* `QMS_xxxx_Print_System_hardwareaddress`*, where* `xxxx` *is the printer model number and* `hardwareaddress` *is the printer's hardware address as found on the printer start-up page. This address will be blank until the interface has been reset following installation.*

1 **In the Administration/Communications/Network2/CrownNet/NetWare/Config PServer/File Srv Name[1], File Srv Name[2], and File Srv Name[3] menus, enter the name of the target file server (primary 3.*x* configuration server).**

» **Note:** *The three File Srv Name[x] menus allow you to identify 1 file server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 file servers. Up to 16 file servers are supported. To enter the 15 other file server names, use CrownAdmin 3.*

Spaces and lowercase characters are not allowed within file server names. However, underscore characters (_) are allowed to simulate multiword names (for example, PUBS_SERVER). At the printer control panel only, a space must be used following the last character of the file server name to end the name. For example, the file server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
FILE SRV NAME[1]
FIRST_GROUP_GROU

FILE SRV NAME[2]
PS_BLUE_TEAM_TEA

FILE SRV NAME[3]
MS_CRC_QMS<space>
```

where <space> is the space character.

2 **In the Administration/Communications/Network2/CrownNet/NetWare/Config PServer/PServer Name[1], PServer Name[2], and PServer Name[3] menus, enter the name of the bindery print server.**

» **Note:** *The three PServer Name[x] menus allow you to identify one print server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 print servers.*

Spaces and lowercase characters are not allowed in print server names. However, underscore characters (_) are allowed to simulate multiword names (for example, PUBS_PSERVER). At the printer control panel only, a space must be used following the last character of the print server name to end the name. For example, the print server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
PSERVER NAME[1]
FIRST_GROUP_GROU

PSERVER NAME[2]
PS_BLUE_TEAM_TEA

PSERVER NAME[3]
MS_CRC_QMS<space>
```

where <space> is the space character.

3 In the Administration/Communications/Network2/CrownNet/NetWare/RN Printer#1/Printer Slot # menu, enter the printer slot number.

» **Note:** *This number must match the slot number chosen in the Printer Configuration submenu of the Print Server Configuration menu in the NetWare PCONSOLE utility.*

4 In the Administration/Communications/Network2/CrownNet/NetWare/RN Printer#1/PServer Name[1], PServer Name[2], and PServer Name[3] menus, enter the name of the print server.

» **Note:** *The three PServer Name[x] menus allow you to identify 1 print server with a name up to 47 characters long. (Up to 16 characters can be entered in each of the 3 menus). You cannot use these 3 menus to identify 3 print servers.*

Spaces and lowercase characters are not allowed. However, underscore characters (_) are allowed to simulate multiword names (for example, PUBS_PSERVER). At the printer control panel only, a space must be used following the last character of

the print server name to end the name. For example, the print server name

FIRSTGROUP_GROUPS_BLUE_TEAM_TEAMS_CRC_QMS

is 42 characters long, and must be entered as follows:

```
PSERVER NAME[1]
FIRST_GROUP_GROU
```

```
PSERVER NAME[2]
PS_BLUE_TEAM_TEA
```

```
PSERVER NAME[3]
MS_CRC_QMS<space>
```

where <space> is the space character.

5 **Reset the CrownNet interface by using the Administration/ Communications/Network2/CrownNet/Common/Soft Reset menu.**

6 **You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

NetWare Interface Configuration (Netware 4.x)

Unless you want to use the default settings, use the following procedure to name the file and print servers. These names must be unique.

» **Note:** *In CrownAdmin, the printer shows up as `QMS-xxxx-Print-System-hardwareaddress`, where `xxxx` is the printer model number and `hardwareaddress` is the printer's hardware address as found on the printer start-up page.*

1 **In the Administration/Communications/Network2/CrownNet/NetWare/Config PServer/PServer Context[1], PServer Context[2], and PServer Context[3] menus, enter the name of the configuration file server and print server context.**

» **Note:** *The three PServer Context[x] menus allow you to identify the name of the NDS configuration file server and the print server context.*

The format for the option is

- File server name
- Space
- Print server context

For example, if the configuration file server name is QMS-4 and the print server context is PRINTSERV2.SALES.QMS, you would enter:

QMS-4 PRINTSERV2.SALES.QMS

» **Note:** *Make sure to put a space between the file server name* (QMS-4) *and the print server context (*PRINTSERV2.SALES.QMS).

Up to 16 characters can be entered in the Pserver Context[1] field, and additional 16 characters in Pserver Context[2] field, and 16 characters in the Pserver Context[3] field.

» **Note:** *If you want to assign more than 14 characters to the file server name you must use CrownAdmin 3 to enter the name.*

2 **Reset the CrownNet interface by using the Administration/Communications/Network2/CrownNet/Common/Soft Reset menu.**

3 **You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

TCP/IP Interface Configuration

1 **If necessary, in the Administration/Communications/ Network2/CrownNet/TCPIP/Internet Address menu, enter the printer's Internet address.**

The factory default Internet address is 161.033.128.024.

» **Note:** *Only the IP address needs to be entered. It is not necessary to enter the subnet mask.*

2 **If necessary, in the Administration/Communications/ Network2/CrownNet/TCPIP/Default Router menu enter the Internet address of the default router.**

The factory default router address is 000.000.000.000.

3 **If you set a default router address in the previous step, in the Administration/Communications/Network2/CrownNet/TCPIP/ Subnet Mask menu enter the printer's subnet mask.**

The default subnet mask is 000.000.000.000. This setting provides automatic sensing of gateways. If you identify a subnet mask, automatic sensing is disabled.

4 **You're now ready to print.**

From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference manual*.

Configure the Network

Unless you are using TCP/IP, it is not necessary to do this right now. You can configure the network after the printer is up and running.

For complete instructions, refer to the *QMS CrownNet Setup Guide*.

TCP/IP NetWork Configuration

1 Log on the UNIX system as root.

2 Edit the system host table by adding the following line to the /etc/hosts file:

```
internetaddress hostname
```

where *internetaddress* is the Internet address of the printer (Administration/Communications/Network2/CrownNet/TCPIP/Internet Address menu) and *hostname* is the name of the host.

3 If necessary, set the hardware address.

▲ **Caution:** *We strongly recommend that you do not change the hardware address.*

- If you're working on a system other than a UNIX system, set the hardware address through the printer control panel.
- If you're working on a UNIX system, send the hardware address to the print server by typing

  ```
  arp -s hostname hardwareaddress temp↵
  ping hostname↵
  ```

  where *hostname* is the name of the host and *hardwareaddress* is the hardware address of the printer (in the form *##.##.##.##* as found on the printer start-up page).

» **Note:** *You can also send the hardware address of a UNIX system through the BOOTP and RARP utilities.*

Install the QMS CrownNet Print Utility or the QMS Network Print Monitor

It is not necessary to install these right now. You can do this after the printer is up and printing.

For complete instructions, refer to the *QMS CrownNet Setup Guide, QMS Network Print Monitor for Windows NT Administrator's Guide, or QMS Network Print Monitor for Windows 95 Administrator's Guide*.

Where To Go From Here

In addition to this chapter, the following documentation contains information you may need:

- *QMS CrownNet Setup Guide*—Contains detailed setup information.
- *QMS CrownNet System Administrator's Guide*—Provides detailed configuration and utility information.
- CrownAdmin 3 on-line help—Contains detailed information on using CrownAdmin 3. Choose Contents from the Help menu in the main CrownAdmin 3 window (or choose any Help button) to access the on-line user's guide.
- CrownNet Print Utility on-line help—Contains detailed information on using CrownNet Print Utility.
- *QMS Crown Remote Console User's Guide*—Explains how to use Remote Console to control printing from a workstation anywhere on the network.
- Your network documentation—Contains information on printing.

- *QMS Network Print Monitor for Windows NT Administrator's Guide*—Contains detailed information on using the QMS Network Print Monitor for Windows NT.
- QMS Network Print Monitor for Windows NT on-line help—Contains detailed information on using the QMS Network Print Monitor for Windows NT.
- *Network Print Monitor for Windows 95 Administrator's Guide*—Contains detailed information on using the QMS Network Print Monitor for Windows 95.
- QMS Network Print Monitor for Windows 95 on-line help—Contains detailed information on using the QMS Network Print Monitor for Windows 95.

If You Have Trouble

If you have trouble connecting and configuring your Ethernet interface, refer to the "CrownNet Problems" section of chapter 6, "Troubleshooting Printer Problems," of the *Operation* manual.

What's Next?

Now that you've connected your printer to an Ethernet network, continue with chapter 6, "Control Panel," in this manual to learn about the printer's control panel keys, indicators, and message window.

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5

Connecting to a Macintosh

In This Chapter . . .

- "Connecting to a Macintosh" on page 5-1
- "Macintosh Printing Software" on page 5-2

Introduction

This chapter describes the printing software you'll need to print from a Macintosh.

Connecting to a Macintosh

- If you're connecting to a Macintosh through an optional LocalTalk interface, refer to chapter 3, "Interfaces and Daughterboards," in the *Options* manual for installation and connection information.
- If you're connecting to a Macintosh through an Ethernet network, refer to chapter 4, "Connecting to an Ethernet Network," for connection information.

Macintosh Printing Software

If you're replacing a PostScript printer, you can probably start printing now with the printing software already in place. Refer to your application documentation for instructions on sending documents to the printer.

However, if you want to be able to use all your printer's special features (like collation, 600x600 dpi and 1200x1200 dpi printing, if the Multi-Res daughterboard is installed), **or** if you have never printed to a PostScript printer before, we recommend you take a few minutes to make sure you have the following printing software installed:

- QMS Macintosh Utilities
- A PostScript printer driver
- Application-specific printer files

Installing Macintosh Utilities

QMS Macintosh Utilities are utilities for controlling the printer from the Macintosh. It is included on the *QMS Software Utilities* CD-ROM shipped with your printer.

1 **With the Macintosh on, insert the *QMS Software Utilities* CD-ROM in your Macintosh's CD-ROM drive.**

2 **If necessary, double-click the CD-ROM icon to display the CD-ROM contents.**

3 **Double-click the PLATFORM folder icon to display the folder contents.**

4 **Double-click the MAC folder icon to display the folder contents.**

5 **Double-click the UTILS folder icon to display the folder contents.**

6 **Double-click the UTILS installer icon.**

7 **In the dialog box that appears, verify the Install location.**

To change the Install Location you can either use the drop-down list box to display and select the appropriate disk, or you can choose the Switch Disk button to scroll through the available disks.

8 **Also in the dialog box, choose Easy Install or Custom Install.**

- **Easy Install** automatically installs all of the utilities, including the PDF, PDX, and PPD files and the screen fonts.
- **Custom Install** allows you to choose the options you want to install. The amount of available space on your Macintosh hard disk and the amount of space necessary for all of the selected options are indicated near the bottom of the window.

» **Note:** *If you're using Custom Install, you can click the small icon (it looks like a capital I inside a square) to the right of each install option for more information about that option.*

9 Choose the Install button to begin.

Installation takes approximately one minute. The Installer places all of the options inside a newly created PSExec f folder in the location you chose in step 7.

10 When the installation is finished, you're prompted to choose either Continue to install additional options from the Custom installation option or Quit to exit the Utils installer program.

Installing Macintosh Printer Drivers

To be able to use all your printer's special features, you need to take a few minutes to load the following software from the *QMS Software Utilities* CD-ROM we shipped with your printer:

If QuickDraw GX is installed on your Macintosh, load the GX driver for the QMS 2060 Print System. Go to "Installing the QMS GX Driver" on page 5-4.

If QuickDraw GX is not installed on your Macintosh, install the following:

- QMS Macintosh printer utilities

  See "Installing Macintosh Utilities" on page 5-3 for information.

- QMS 2060 PPD file

  See "Installing the QMS 2060 PPD" on page 5-8 for information.

- Printer files for Aldus/Adobe PageMaker, Aldus/Macromedia FreeHand, Adobe PrePrint, Adobe Separator, or QuarkXPress

  See "Application Notes" on page 5-9 for information.

Installing the QMS GX Driver

If you have QuickDraw GX installed on your Macintosh, you should install the QMS GX driver for your printer. QuickDraw GX provides innovative typographic, graphic, and printing features. The QMS GX

driver allows your QMS printer to take full advantage of all of these features.

» **Note:** *You cannot use the GX driver and the LaserWriter driver at the same time.*

System Requirements

To be able to use the GX drivers, you must have QuickDraw GX and at least System 7.1 (preferably 7.5) installed on your Macintosh. See your Macintosh documentation for more information.

» **Note:** *To avoid losing any data, make sure you close any open files or applications before installing the QMS GX driver, because the Macintosh reboots when installation is complete.*

Installing from CD-ROM

Use the following instructions if you're installing the QMS GX printer driver from the QMS Software Utilities CD-ROM.

» **Note:** *At times updated printer drivers are shipped on 3.5" disk rather than on CD-ROM. If your shipment includes a printer drivers on a 3.5" disk, use the instructions in "Installing from a 3.5" Disk" on page 5-6 to install them.*

1. **Insert the CD-ROM in your CD-ROM drive.**
2. **If necessary, double-click the CD-ROM icon to display the CD-ROM contents.**
3. **Double -click the MAC folder icon to display the folder contents.**
4. **Double-click the GX folder icon to display the folder contents.**
5. **Double-click the MAC_GX folder icon to display the folder contents.**
6. **Double-click the gx_insta icon to open the Installer.**

7 In the QMS GX Drivers Installer dialog box, verify the Install Location.

To change the Install Location you can either use the drop-down list box to display and select the appropriate disk drive, or choose the Switch Disk button to scroll through the available disk drives.

8 Choose Easy Install or Custom Install.

- **Easy Install** automatically installs all of the GX drivers available on the CD-ROM for QMS printers.
- **Custom Install** allows you to select the GX driver(s) for the specific QMS printer(s) you want to install. For example, if you wanted to install the GX drivers for the QMS 2060, but not for the other listed QMS printers, you would click the check box next to this driver only.

  The amount of available space on your Macintosh hard disk and the amount of space necessary for all of the selected drivers are indicated near the bottom of the window.

» **Note:** *If you're using Custom Install, you can click the small icon to the right of each install option for more information about that option.*

9 Click Install to begin the installation.

When the installation is complete, a dialog box prompts you to choose Continue to install additional drivers from the Custom Install option or to choose Quit to exit from the Install program.

Installing from a 3.5" Disk

Use the following instructions if you're installing the printer driver from a 3.5" disk.

1 With the Macintosh on, insert the QMS GX Drivers disk in the disk drive.

2 In the QMS GX Drivers disk window, double-click the QMS GX Drivers Installer icon to open the Installer.

3 In the QMS GX Drivers Installer dialog box, verify the Install Location.

To change the Install Location you can either use the drop-down list box to display and select the appropriate disk drive, or choose the Switch Disk button to scroll through the available disk drives.

4 Choose Easy Install or Custom install.

- **Easy Install** automatically installs all of the GX drivers available on the disk for QMS printers.
- **Custom Install** allows you to select the GX driver(s) for the specific QMS printer(s) you want to install. For example, if you wanted to install the GX drivers for the QMS 2060, but not for the other listed QMS printers, you would click the check box next to this driver only.

  The amount of available space on your Macintosh hard disk and the amount of space necessary for all of the selected drivers are indicated near the bottom of the window.

» **Note:** *If you're using Custom Install, you can click the small icon to the right of each install option for more information about that option.*

5 Click Install to begin the installation.

The Installer places the GX drivers in the Extensions folder inside the System folder. It also creates a QMS GX Drivers folder in the hard disk window. Inside this folder is the Installer log file, which you can view to verify the installation.

When the installation is finished, a dialog box prompts you to choose Continue to install additional drivers from the Custom install option or to choose Quit to exit the Installer program.

Creating a Printer Icon

Before you can print, you must create a desktop printer icon.

1 Make sure the printer is on and on line.

2 From the Apple menu choose Chooser.

3 **In the Chooser window, select the QMS 2060 GX Driver icon.**

» **Note:** *If your printer is connected to a network with multiple zones, rather than connected directly to your Macintosh, in the AppleTalk Zones box select the zone in which your printer is located.*

4 **Click Create.**

The printer icon for the selected printer is created and is placed on the desktop.

5 **Exit the Chooser.**

6 **Click the desktop printer icon you just created to select it.**

A new Printing menu is added to the Finder at the top of the desktop. This menu appears every time you select the desktop printer icon.

7 **Use the commands in the Finder's Printing menu to set up the printer defaults.**

Now, when you open an application, you can print using these default settings, or you can customize them for a particular print job by accessing the QMS printing options within the application (choose Options in the application's Print dialog box). You can also print by dragging a document to the printer icon.

Installing the QMS 2060 PPD

Although the QMS 2060 supports LaserWriter 6, 7, and 8, we recommend using LaserWriter 8.

» **Note:** *The QMS 2060 PPD (a printer description file) is provided with your printer so you can take advantage of special features while using the LaserWriter driver.*

1 **If you haven't already, install a LaserWriter driver.**

Refer to your Macintosh documentation.

2 **If you haven't already, follow the instructions given above in "Installing Macintosh Utilities" on page 5-3.**

3 **If you don't already have one, create a Printer Descriptions folder on your Macintosh hard disk:**

System 8 and 7 users—Create a folder called Printer Descriptions inside the Extensions folder inside the System Folder.

System 6 users—Create a folder called Printer Descriptions inside the System Folder.

4 **Open the PSExec f folder you created in "Installing Macintosh Utilities" on page 5-3.**

5 **Open the 4.x PPDs folder.**

6 **Select the QMS 2060 printer description file and drag it to the Printer Descriptions folder on your Macintosh hard disk.**

7 **From the Apple menu, choose Chooser.**

8 **In the Chooser window, select the LaserWriter 8.*x* icon, and then select the QMS 2060.**

9 **Choose the Setup button.**

This causes the LaserWriter to query the printer and automatically choose the appropriate PPD.

10 **Exit from the Chooser.**

Now, when you go into your application, you can access QMS printing options by choosing Options in your application's Print dialog box.

Application Notes

If you use any of these applications, install the appropriate printer description file (PPD, PDX, and/or PDF) as described below:

1 **If you haven't already, follow the instructions given above in "Installing Macintosh Utilities" on page 5-3 and in "Installing the QMS 2060 PPD" on page 5-8.**

2 **Install the appropriate printer description file(s) for your application from the PSExec f folder:**

- **If you use Adobe Separator,** install the PPD file in the Printer Descriptions folder.
- **If you use Adobe PageMaker 5.*x*,** install the version 4.*x* PPD in the Printer Descriptions folder.
- **If you use Macromedia FreeHand 4.*x*,** install the version 4.*x* PPD in the Printer Descriptions folder.
- **If you use QuarkXPress 3.3 or later,** you can use the QMS 2060 PPD. However, **if you use an earlier version**, install the QMS 2060 PDF in the QuarkXPress folder in the PDF folder. To select the PDF, go to Quark's Page Setup dialog box. Under Printer Type, select the QMS 2060 PDF and select the Use Printer Default Screen Angles checkbox. Also in Quark's Page Setup dialog box, make sure None is selected for the EFI Color profile option.

Printing from the Macintosh

Your now ready to print from your Macintosh. From this point, you'll probably perform most printing tasks from your application. For specific information, check the printing section in your application documentation.

For information on print media types and sizes, see chapter 2, "Print Media," in the *Reference* guide.

A Note for Users of Aldus Applications

If you use an Aldus application (or one that used to be owned by Aldus, such as PageMaker or FreeHand), when you want to print, hold down the Option key while selecting Print from the File menu. This brings up the LaserWriter windows, which contains the QMS printing options. Normally, Aldus applications bypass LaserWriter and use an Aldus printer driver, which prevents you from accessing QMS printing options.

A Note for Users of Adobe PhotoShop

If you use Adobe PhotoShop, go to PhotoShop's Page Setup dialog box, and select Use Printer's Default Screen under the Screens option. This allows your choices in the QMS driver to take effect.

If You Have Trouble

If you have trouble connecting and configuring your Macintosh interface, refer to the "Output Problems" section of chapter 6, "Troubleshooting Printer Problems," in the *Operation* guide for troubleshooting tips.

What's Next?

Now that you've connected your printer to a Macintosh interface, go to chapter 6, "Control Panel," to learn about the printer's control panel keys, indicators, and message window.

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6

Control Panel

In This Chapter . . .

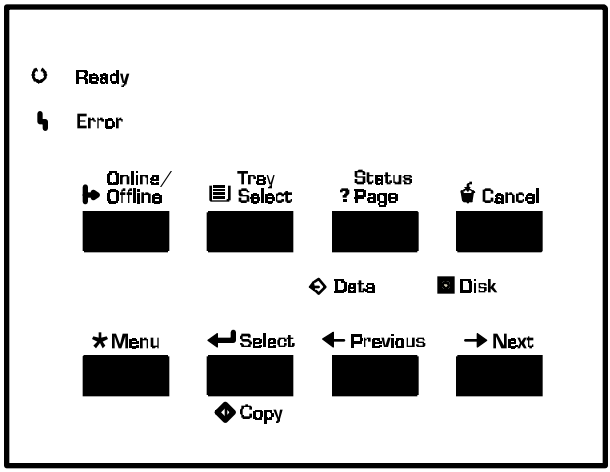
- “Control Panel Indicators” on page 6-3
- “Message Window” on page 6-3
- “Control Panel Keys” on page 6-6

Introduction

The control panel, located on the front of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.

The control panel consists of the following parts:

- Four indicators to provide printer status information.
- A message window to display status and configuration information.
- Nine keys to allow you to control the printer.



Control Panel Indicators

Four indicators on the control panel display printer status information.

Indicator	On	Off	Blinking
Ready	The system is on line and ready.	The system is off line or not ready or both.	The printer is warming up.
Error	The printer requires operator intervention. This indicator is usually accompanied by a status message in the message window.		
Data	The printer is receiving data from one or more of the simultaneous interfaces.		The printer is receiving data from one or more of the simultaneous interfaces.
Disk	The printer hard disk is being accessed.		

Message Window

The control panel message window provides status and configuration

information. Status messages are listed in chapter 6, “Troubleshooting Printer Problems,” of the *Operation* guide. Printer configuration is explained in chapter 4, “Printer Configuration,” of the *Reference* guide.

Messages are displayed in three ways in the message window:

- **Continuous display** — A short status message such as `IDLE` displays continuously until the status changes.
- **Scrolling display** — A longer status message, such as `WAITING ON INPUT END JOB?`, scrolls marquee-style so that you can read the whole message whenever you happen to look at the printer. Throughout this manual, messages that scroll are shown in shaded boxes.
- **Changing display** — Messages that show you where you are in the configuration menu display in two parts. For 1.5 seconds, the name of the menu you are leaving displays in the window; then the menu or option you have reached displays until you press another key.

  When you go automatically through one level to its options, the level you pass through displays for 1.5 seconds, and then the first option displays. For example, when you take the printer off line and then press the Menu key, the message window reads `CONFIGURATION` for 1.5 seconds and then switches to `OPERATOR CONTROL.`

Setting the Message Window Language

Status messages and configuration menus can be displayed in the message window in English, French, German, or Spanish. If you need to change the message window language, use the Administration/Miscellaneous/Keypad Language menu.

If you're not familiar with using the configuration menu, refer to chapter 4, "Printer Configuration," of the *Reference* guide for complete information.

Menu	Administration/Miscellaneous/Keypad Language
Choices	English, French, German, Spanish
Default	English
Notes	The printer must be restarted for changes to this menu to take effect. You can either let the printer restart automatically after you save the change and exit from the configuration menu, or you can wait for the change to take effect the next time you manually turn on the printer.

Control Panel Keys

Online/Offline, Tray Select, Copy, Status Page, and Cancel Keys

The Online/Offline, Tray Select, Status Page, and Cancel keys access frequently used printer options. The Copy key is available when the CrownCopy option is installed.

Key	Function
	Use the Online/Offline key to switch the printer from on line to off line status. Press the key once to take the printer off line when it is on line and once to return the printer to on line when it is off line. When the printer goes off line, the communication ports are closed, so no new data is accepted. The printer continues printing until it has finished all jobs in process. Although jobs continue to compile and print using the data already received, a job may be interrupted, causing it to wait for more incoming data before printing resumes. If a remote console has taken the printer off line, pressing the Online key on the control panel will not take effect until the console puts the printer back on line. » **Note:** *You must take the printer off line before using all other keys except the Status Page and Cancel keys (and the Copy key if CrownCopy is installed).*

Tray Select	Use the Tray Select key to select the active media input source: ■ multipurpose (multipurpose tray) ■ upper (upper cassette) ■ optional (optional cassette, if installed) The printer must be off line for you to use the Tray Select key.
Copy	Use the Copy key to print a copy via CrownCopy, if that option is installed.
Status ? Page	Use the Status Page key to print a listing of the current printer settings. See the “Special Pages” section of chapter 4, “Printer Configuration,” in the *Reference* guide for information on the status page contents. You can print a status page whether the printer is on line or off line.
Cancel	Press the Cancel key to cancel one or more print jobs or to send on end-of-job command (See chapter 3, “Advanced Printing Features,” of the *Operation* guide for complete information.) You can use this key while the printer is on line. » **Note:** *If you press the Cancel key by mistake, or if you decide not to cancel a print job after pressing this key, press the Menu key to “cancel” the Cancel key’s function.*

Menu, Select, Previous, and Next Keys

The Menu, Select, Previous, and Next keys are used in printer configuration (explained in detail in chapter 4, “Printer Configuration,” of the *Reference* guide). Before using any of these keys, press the Online/Offline key to take the printer off line.

Key	Function
✱Menu	Press the Menu key to access the configuration menu. First press the Online/Offline key to take the printer off line, and then press the Menu key to access the configuration menu. When you’re changing the printer configuration, press this key to cancel a change (before pressing the Select keys), to return to a previous menu, or to return to a previous character when entering character information.
↵Select	Press the Select key to access a menu or to choose a displayed menu option.
←Previous	Press the Previous key to return to the previous selection or option for the current menu. When changing character information, use this key to return to the previous choice for the current input character.
→Next	Press the Next key to advance to the next selection or option in the current menu. When changing character information, use this key to advance to the next choice for the current input character.

What's Next?

Now you're ready to print. For more information on the day-to-day operation of your printer, refer to the *Operation* guide. For more technical information, refer to the *Reference* guide.

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A

QMS Customer Support

In This Chapter . . .

- "Sources of Support" on page A-2
- "QMS World-wide Offices" on page A-5

Sources of Support

Several sources of help and information are available, depending on the type of help you need:

Your QMS Vendor

Your local vendor (the one from whom you bought the printer) may be best equipped to help you. Your vendor has specially trained service technicians available to answer questions, and the equipment to analyze your printer problems.

Your Application Vendor

Often, “printing” problems have more to do with the application being used than with the printer. In this case, the application manufacturer is the best source of help.

Q-FAX

Q-FAX, a QMS information retrieval service, provides application notes, technical support notes on common printing problems, and information about printer specifications, options, accessories, consumables, and prices.

In the United States and Canada, call (800) 633-7213 to reach Q-FAX. In all other countries, call (334) 633-3850. Have your fax number handy when you call (or place the call from your fax machine's handset).

You can choose to have either a directory (a list of currently available documents) or a specific document sent to you. The first time you call, request the directory (press 2 on your phone or fax keypad when prompted). Then call back to request specific documents. You can order up to three documents per call.

The QMS Corporate Bulletin Board System

The QMS Corporate Bulletin Board System (BBS) contains technical support notes, application notes, drivers, patches, and utilities, and you may leave technical questions not requiring an immediate response on electronic mail for the Sysop (System Operator).

The bulletin board [(334) 633-3632] operates at 1200, 2400, 9600, and 14400 baud, 8 data bits, no parity, 1 stop bit, with XMODEM, YMODEM, and ZMODEM capabilities. Contact QMS Customer Response Center (CRC) for more information about the bulletin board.

CompuServe

Through CompuServe, you ask general (non-technical) questions, share information with other users, and access printing information and programs. When you use CompuServe, type `go qmsprint↵` to go directly to the forum where QMS is located. The QMS library section contains application notes, printer drivers, utilities, technical information, and announcement files.

Internet

The QMS server provides access to technical reports, new product announcements, a trade show schedule, and other general information about QMS.

If you have access to the World Wide Web, you can view the QMS home page at http://www.qms.com/. The QMS ftp resource is ftp.qms.com.

QMS Customer Response Center (CRC)

You can contact the QMS Customer Response Center (CRC) in three different ways:

- **Telephone**—You can call the CRC at (334) 633-4500 (US) Monday–Friday, 7:00 am–6:00 pm, Central Time.

» **Note:** *If you call for assistance, have the following information ready so our technicians can help you more quickly:*

  - ☑ Your phone number, fax number, and shipping address
  - ☑ A description of the problem
  - ☑ The printer model
  - ☑ The type of host computer you're using
  - ☑ The type and version of operating system you're using
  - ☑ The interface you're using, and, if serial, the protocol (for example, XON/XOFF)
  - ☑ The application and version you're using
  - ☑ The emulation you're using
  - ☑ Your printer firmware version (listed on the status/start-up pages)

- **Fax**—You can fax questions to the CRC at (334) 633-3716 (US). Provide the same information as listed above, and indicate whether you would like a faxed or a phoned reply.
- **Internet**—If you have access to the World Wide Web, you can access the CRC through the QMS home page at http://www.qms.com/

QMS World-wide Offices

QMS United States and Latin America

General Contact
1 (334) 633-4300
Fax 1 (334) 633-4866
Email info@qms.com
Internet http://www.qms.com
Information on QMS products, supplies, and accessories, and on the authorized QMS remarketer or service provider nearest you
1 (800) 523-2696

Customer Response Center (CRC)
Technical Assistance
1 (334) 633-4500 7:00 am–6:00 pm Central Time
Fax 1 (334) 633-3716
Internet http://www.qms.com
Bulletin Board Service
1 (334) 633-3632

Latin America Fax
1 (334) 639-3347

National Service
Service Information, Installation, and Maintenance Pricing
1 (800) 762-8894
On-Site Service and Depot Repair Information
1 (800) 858-1597 7:00 am–7:00 pm Central Time
Spare Parts Ordering and Information
1 (334) 633-4300 x2530 8:00 am–5:00 pm Central Time

QMS Canada

General Contact
1 (514) 333-5940
Fax 1 (514) 333-5949
Supplies and Accessories 1 (800) 268-0343 x223

National Service
On-Site Service and Depot Repair Information
1 (800) 268-4969 8:30 am–7:00 pm Eastern Time
Spare Parts Ordering and Information
1 (905) 206-9234 x238 8:30 am–5:00 pm Eastern Time

Bulletin Board Service
1 (905) 206-0084

QMS in Japan

General Contact
(+81)-3 3779-9600
Fax (+81)-3 3779-9650
Internet http://www.qmsj.co.jp

QMS in Latin America

General Contact
Cra 43 DD#8-42
Officina 201
Medellin, Colombia
(+57) (4) 312 13 70
Fax (+57) (4) 268 92 97

QMS EMEA

QMS Australia	Anitech Sydney Business & Tech. Centre 52/2 Railway Parade 2141 Lidcombe NSW Australia (+61) 2–9901 3235 Fax (+61) 2–9901 3273
QMS Benelux **Belgium, Netherlands, and all unlisted countries**	Planetenbaan 60 'Corner Plaza' 3606 AK Maarssen The Netherlands (+31) 346–551333 Fax (+31) 346–550170 Internet http://www.qms.nl
QMS France	Vélizy Plus 1 Bis, Rue du Petit Clamart 78142 Vélizy Cedex France (+33) 1–410 79 393 Fax (+33) 1–408 30 110
QMS GmbH **Germany and Austria**	Gustav Heinemann Ring 212 D-81739 Munich Germany (+49) 89 63 02 67 0 Fax (+49) 89 63 02 67 67

QMS Italy	Via della Repubblica 56 43100 Parma Italy (+39) 52–1231 998 Fax (+39) 52–1232 902
QMS Nordic **Sweden, Finland, Norway, and Denmark**	Arenavägen 41, 6th floor 121 77 Johanneshov Sweden (+46) 8–600 01 30 Fax (+46) 8–600 01 33
QMS South Africa	Saskay House Unit 24 Sunninghill Business Park Peltier Road, Sunninghill, Johannesburg Republic of South Africa (+27) 11–807 6957 Fax (+27) 11–807 6960
QMS UK **United Kingdom and Ireland**	Old Bridge House, The Hythe Staines, Middlesex TW18 3JF United Kingdom (+44) 1784–442255 Fax (+44) 1784–461641

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B

Configuration Menu

In This Chapter . . .

- “Menu Chart Conventions” on page 2
- “Installation Menu” on page 3
- “Operator Control Menu” on page 4
- “Administration Menu” on page 5

Introduction

You may use this section as a quick reference for understanding and navigating the menu structure of the QMS 2060 Print System.The following menu charts are provided in this section:

- **Installation menu**

  Shows the configurations available when the security key is used to access the Installation menu.

- **Operator Control menu**

  Shows the printer operator configurations.

- **Administration menu**

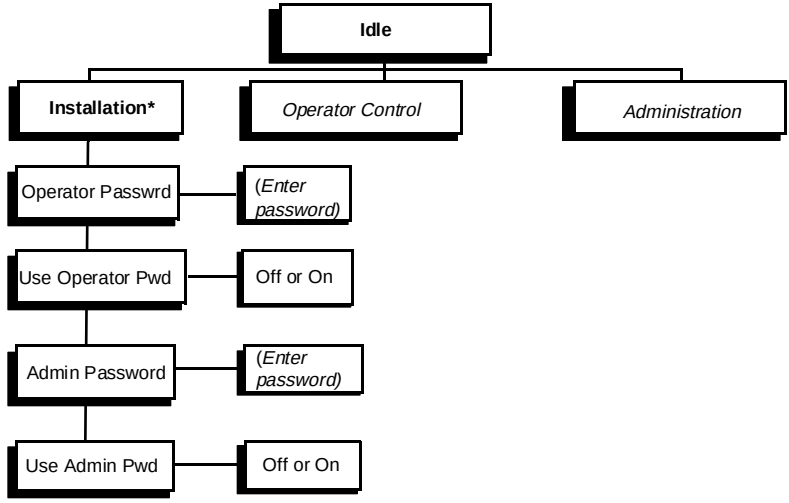
  Shows the printer administration configurations.

Menu Chart Conventions

The following conventions are used in the menu charts:

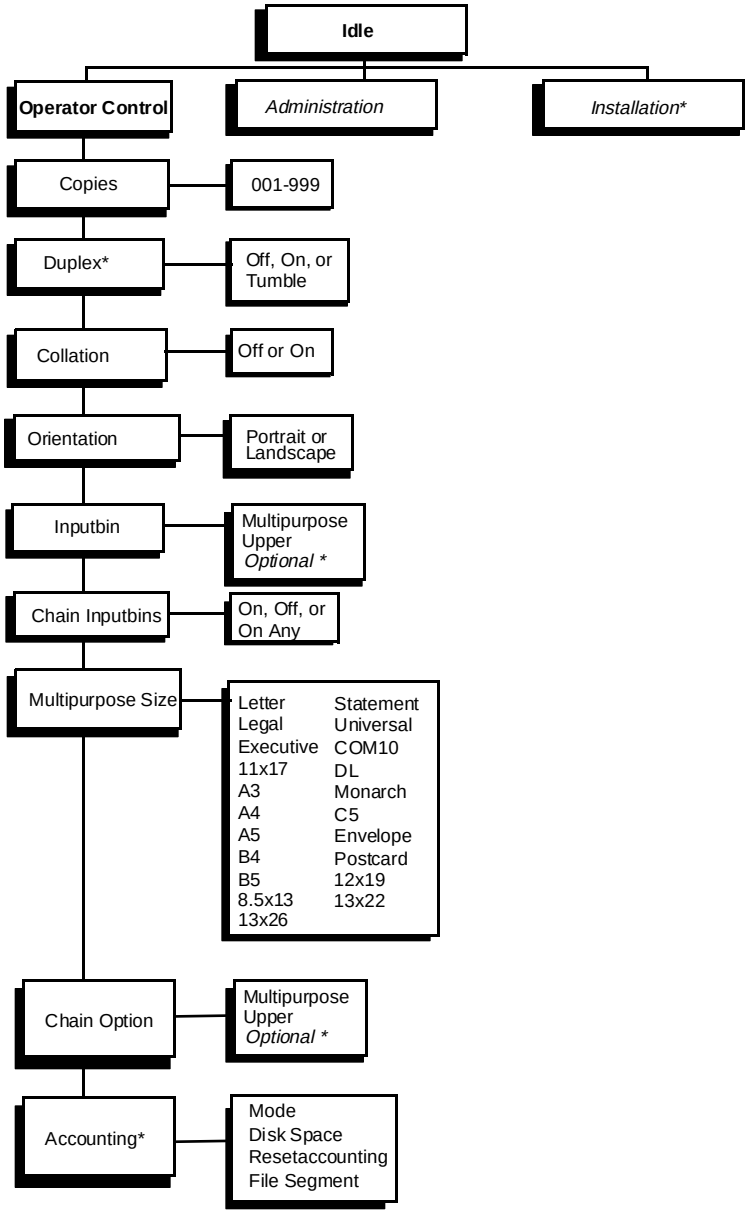
- Some menu selections are marked with an asterisk (*). These selections will only appear on your print system if the specified option is installed.
- See chapter 4, “Printer Configuration,” of the *Reference* guide for detailed information on a menu selection options.

Installation Menu



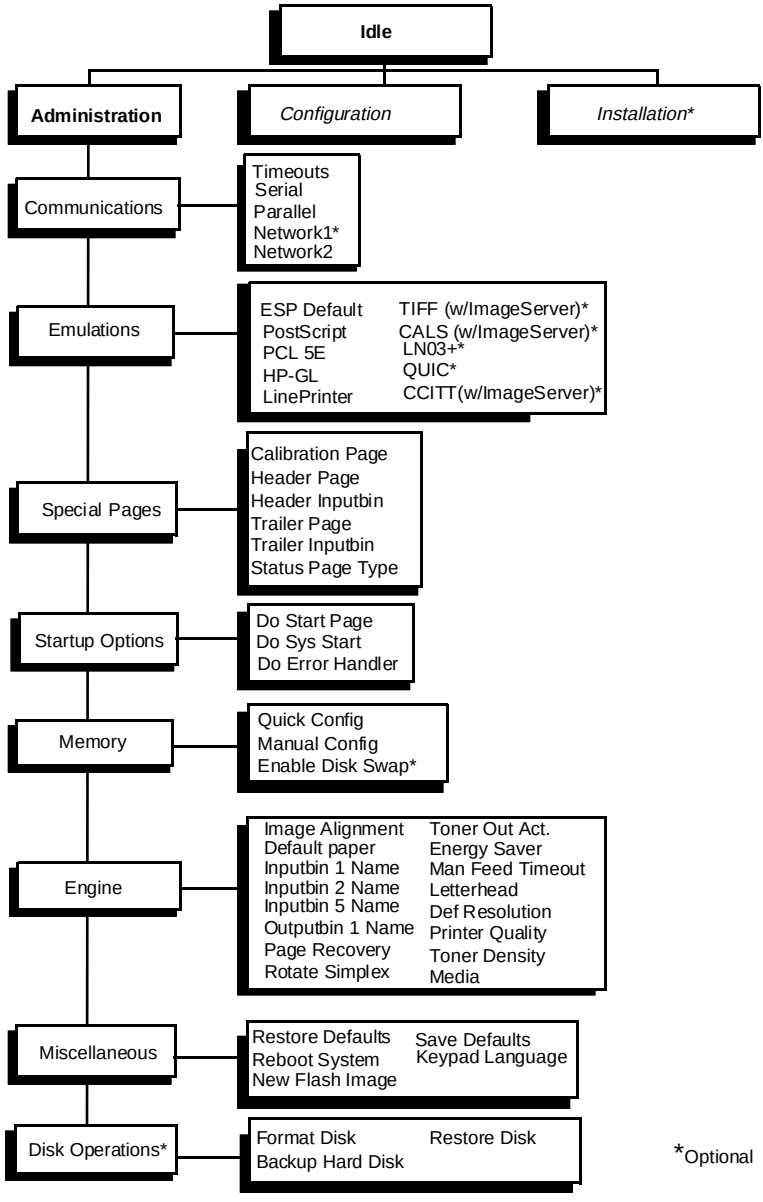
*Optional

Operator Control Menu



*Optional

Administration Menu



*Optional

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